

Claims

What is claimed is:

1. A method of balancing workload of a computing environment, said method comprising:

obtaining information regarding one or more systems of a plurality of systems of a grid computing environment; and

balancing workload of at least two systems of the plurality of systems using at least a portion of the obtained information.
2. The method of claim 1, wherein the obtaining comprises obtaining by a manager daemon of the grid computing environment the information from one or more schedulers associated with the one or more systems.
3. The method of claim 2, wherein information is obtained from at least two schedulers, and wherein one scheduler of the at least two schedulers is a different scheduler from at least one other scheduler of the at least two schedulers.
4. The method of claim 1, wherein the information comprises information regarding workload of said one or more systems.
5. The method of claim 4, wherein the information for a system includes at least one of a number of free nodes of the system, job queue of zero or more waiting jobs, and one or more scheduler specific variable settings for a current state of the system job mix.

6. The method of claim 1, wherein the balancing includes:

determining which system of said at least two systems a job is to be assigned; and

assigning the job to the determined system.
7. The method of claim 1, wherein the balancing includes:

removing a job from one system of the at least two systems; and

assigning the job to another system of the at least two systems.

8. A system of balancing workload of a computing environment, said system comprising:

means for obtaining information regarding one or more systems of a plurality of systems of a grid computing environment; and

means for balancing workload of at least two systems of the plurality of systems using at least a portion of the obtained information.

9. The system of claim 8, wherein the means for obtaining comprises means for obtaining by a manager daemon of the grid computing environment the information from one or more schedulers associated with the one or more systems.

10. The system of claim 9, wherein information is obtained from at least two schedulers, and wherein one scheduler of the at least two schedulers is a different scheduler from at least one other scheduler of the at least two schedulers.

11. The system of claim 8, wherein the information comprises information regarding workload of said one or more systems.

12. The system of claim 11, wherein the information for a system includes at least one of a number of free nodes of the system, job queue of zero or more waiting jobs, and one or more scheduler specific variable settings for a current state of the system job mix.

13. The system of claim 8, wherein the mean for balancing includes:

means for determining which system of said at least two systems a job is to be assigned; and

means for assigning the job to the determined system.

14. The system of claim 8, wherein the means for balancing includes:

means for removing a job from one system of the at least two systems; and

means for assigning the job to another system of the at least two systems.

15. An article of manufacture comprising:

at least one computer usable medium having computer readable program code logic to balance the workload of a computing environment, the computer readable program code logic comprising:

obtain logic to obtain information regarding one or more systems of a plurality of systems of a grid computing environment; and

balance logic to balance workload of at least two systems of the plurality of systems using at least a portion of the obtained information.

16. The article of manufacture of claim 15, wherein the obtain logic comprises logic to obtain by a manager daemon of the grid computing environment the information from one or more schedulers associated with the one or more systems.

17. The article of manufacture of claim 15, wherein the information comprises information regarding workload of said one or more systems.

18. The article of manufacture of claim 17, wherein the information for a system includes at least one of a number of free nodes of the system, job queue of zero or more waiting jobs, and one or more scheduler specific variable settings for a current state of the system job mix.

19. The article of manufacture of claim 15, wherein the balance logic includes:

determine logic to determine which system of said at least two systems a job is to be assigned; and

assign logic to assign the job to the determined system.

20. The article of manufacture of claim 15, wherein the balance logic includes:

remove logic to remove a job from one system of the at least two systems;
and

assign logic to assign the job to another system of the at least two systems.

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